



Replacement Sheet (1 of 3)  
Title: OSTEOPROTEGERIN IN MILK  
Inventor: Vidal et al.  
App. No.: 10/676,358  
Docket No.: 112701-467

MKLATAFTILTAVLAAPLAAPAPAPDAAPAAVPEGPAAAAYSSILSVVAKQSKKFKHHKR  
DLDEKDQFIVVFDSSATVDQIASEIQKLDLSDVDESSNGITSALDLPVYTDGSGFLGFVG  
KFNSTIVDKLKESSVLTVEPDTIVSLPEIPASSAAKRETFPPKYLHYDEETSHQLLCDKC  
PPGTYLKQHCTAKWKTVCAPCPDHYTDSWHTSDECLYCSPVCKELQYVKQECNRTHNRV  
CECKEGRYLEIEFCLKHRSCPPGFGVVQAGTPERN TVCKRCPDGFFSNETSSKAPCRKHT  
NCSVFGLLLTQKGNATHDNICSGNSESTQKCGIDVTLCEEAFRRFAVPTKFTPNWLSVLV  
DNLPGTKVNAESVERIKRQHSSQEQTQLLKLWKHQNKAQDIVKKIIQDIDLCENSVQRH  
IGHANLTFEQLRSLMESLPGKKVGAEDIEKTIKACKPSDQILKLLSLWRIKNGDQDTLKG  
LMHALKH SKTYHFPKTVTQSLKKTIRFLHSFTMYKLYQKL FLEMIGNQVQSVKISCL

Figure 6

1	<u>TCCGGCCTCTTCGGCCGccaagcga</u>	GAAACGTTTCCTCAAAGTACCTTCATTATGACGA	60
1	<i>xpr2</i>	E T F P P K Y L H Y D E	12
61	AGAAACCTCTCATCAGCTGTTGTGTGACAAATGTCTCCTGGTACCTACCTAAAACAACA		120
13	E T S H Q L L C D K C P P G T Y L K Q H		32
121	CTGTACAGCAAAGTGAAGACCGTGTGCGCCCTTGCCCTGACCACTACTACACAGACAG		180
33	C T A K W K T V C A P C P D H Y Y T D S		52
181	CTGGCACACCAGTGACGAGTGTCTATACTGCAGCCCCGTGTGCAAGGAGCTGCAGTACGT		240
53	W H T S D E C L Y C S P V C K E L Q Y V		72
241	CAAGCAGGAGTGCAATCGCACCCACAACCGCGTGTGCGAATGCAAGGAAGGGCGCTACCT		300
73	K Q E C N R T H N R V C E C K E G R Y L		92
301	TGAGATAGAGTTCTGCTTGAAACATAGGAGCTGCCCTCCTGGATTGGAGTGGTGCAAGC		360
93	E I E F C L K H R S C P P G F G V V Q A		112
361	TGGAACCCAGAGCGAAATACAGTTTGCAAAAGATGTCCAGATGGGTTCTTCTCAAATGA		420
113	G T P E R N T V C K R C P D G F F S N E		132
421	GACGTCACTAAAGCACCTGTAGAAAAACACAAATTGCAGTGTCTTTGGTCTCCTGCT		480
133	T S S K A P C R K H T N C S V F G L L L		152
481	AACTCAGAAAGGAAATGCAACACACGCAACATATGTTCCGGAAACAGTGAATCAACTCA		540
153	T Q K G N A T H D N I C S G N S E S T Q		172
541	AAAATGTGGAATAGATGTTACCCTGTGTGAGGAGGCATTCTTCAGGTTTGCTGTTCCTAC		600
173	K C G I D V T L C E E A F F R F A V P T		192
601	AAAGTTTACGCCTAACTGGCTTAGTGTCTTGGTAGACAATTTGCCTGGCACCAAAGTAAA		660
193	K F T P N W L S V L V D N L P G T K V N		212
661	CGCAGAGAGTGTAGAGAGGATAAAACGGCAACACAGCTCACAAAGAACAGACTTTCCAGCT		720
213	A E S V E R I K R Q H S S Q E Q T F Q L		232
	C		
721	GCTGAAGTTATGGAAACATCAAAACAAAGACCAAGATATAGTCAAGAAGATCATCCAAGA		780
233	L K L W K H Q N K D Q D I V K K I I Q D		252
	A		
781	TATTGACCTCTGTGAAAAACAGCGTGCAGCGGCACATTGGACATGCTAACCTCACCTTCGA		840
253	I D L C E N S V Q R H I G H A N L T F E		272
841	GCAGCTTCGTAGCTTGATGGAAAAGCTTACCGGAAAGAAAGTGGGAGCAGAAGACATTGA		900
273	Q L R S L M E S L P G K K V G A E D I E		292
901	AAAAACAATAAAGGCATGCAAAACCCAGTGACCAGATCCTGAAGCTGCTCAGTTTGTGGCG		960
293	K T I K A C K P S D Q I L K L L S L W R		312
961	AATAAAAAATGGCGACCAAGACACCTTGAAGGGCCTAATGCACGCACTAAAGCACTCAAA		1020
313	I K N G D Q D T L K G L M H A L K H S K		332

Figure 7A Sequence of milk OPG.

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1021	GACGTACCACTTTCCCAAACTGTCACTCAGAGTCTAAAGAAGACCATCAGGTTCTTCA	1080
333	T Y H F P K T V T Q S L K K T I R F L H	352
1081	CAGCTTCACAATGTACAAATTGTATCAGAAGTTATTTTAGAAATGATAGGTAACCAGGT	1140
353	S F T M Y K L Y Q K L F L E M I G N Q V	372
1141	CCAATCAGTAAAAATAAGCTGCTTATAACTAGTATCACTAGT	1182
373	Q S V K I S C L	380

Figure 7B Sequence of milk OPG. (Continued)